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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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EXAMINER

YE, LIN

ART UNIT

PAPER NUMBER

2615

DATE MAILED: 07/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/987,849	VIINIKANOJA ET AL.	
	Examiner	Art Unit	
	Lin Ye	2615	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 May 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 37-105 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 37-105 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date. _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments for new claims 37-105 see pages 23, lines 6-10, filed on 5/12/05, with respect to the rejection(s) of claims 1,3,5,7-10, 13, 15-18, 20, 23-25 under 35 U.S.C. 102(e) as anticipated by Arai et al. U.S. Patent 6,775,361 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made under 35 U.S.C. 102(b) as anticipated by Umezawa et al. U.S. Patent 5,491,507.

Specification

2. The substitute specification filed 5/12/05 has been entered.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 37, 39, 41-45, 49, 50, 52-70, 76-80 and 86-105 are rejected under 35 U.S.C. 102(b) as being anticipated by Umezawa et al. U.S. Patent 5,491,507.

Referring to claim 37, the Umezawa reference discloses in Figures 1-7 and 8A-8C, a mobile terminal device (1, video camera with telephone) having a camera (3, see Col. 5, line

62) system comprising a lens module (lens 24, see Col. 7, lines 60-65) and a part of a housing of said mobile terminal device which is detachable from said mobile terminal device (e.g., camera 3 is made detachable from the body 2 of the mobile terminal device 1, see Col. 11, lines 45-50), wherein said part of the housing comprises means for changing optical properties of said lens module, said means being adapted to cooperate with said lens module of said camera system (e.g., the lens portion 24 of the camera 3 has autofocusing, angle-of-view, enlargement and telescoping functions as providing means for changing optical properties of the camera system, see Col. 7, lines 40-45 and Col. 10, lines 34-36).

Referring to claim 39, the Umezawa reference discloses wherein said part of said housing (the housing of the video camera phone system) integrates an assembly of a plurality of means for changing optical properties (such as autofocusing, angle-of-view, enlargement and telescoping) each being adapted to cooperate with said lens module (24) of said camera system (3), wherein said assembly can be changed upon actuation (e.g., user slides the lens portion 24 and lens 24 automatically focusing the user for visual telephone communication as actuation of objectives, See Col. 10, lines 8-16).

Referring to claim 41, the Umezawa reference discloses wherein said means for changing optical properties comprises a lens (lens portion 24).

Referring to claim 42, the Umezawa reference discloses wherein said camera system is built (fixed) into said mobile terminal device as shown Figure 1.

Referring to claim 43, the Umezawa reference discloses wherein said camera system is attached to said mobile terminal device as an external module (with a connection cord, see Col. 11, lines 45-50).

Referring to claim 44, the Umezawa reference discloses wherein said mobile terminal device is a mobile phone as shown in Figures 1.

Referring to claim 45, the Umezawa reference discloses in Figures 1-7 and 8A-8C, a part of a housing of a mobile terminal device which is detachable from said mobile terminal device (e.g., camera 3 is made detachable from the body 2 of the mobile terminal device 1, see Col. 11, lines 45-50), comprising means for changing optical properties of a lens module (e.g., the lens portion 24 of the camera 3 has autofocusing, angle-of-view, enlargement and telescoping functions as providing means for changing optical properties of the camera system, see Col. 7, lines 40-45 and Col. 10, lines 34-36) of a camera system (3) of said mobile terminal device (1), said means being adapted to cooperate with said lens module (24) of said camera system (3).

Referring to claim 49, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 39 and 45.

Referring to claim 50, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 39 and 45-46.

Referring to claim 52, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 41 and 45.

Referring to claim 53, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 43 and 45.

Referring to claim 54, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 44 and 45.

Referring to claim 55, the Umezawa reference discloses in Figures 1-7 and 8A-8C, a means for changing optical properties of a lens module of a camera system (e.g., the lens portion 24 of the cameras has autofocusing, angle-of-view, enlargement and telescoping functions as providing means for changing optical properties of the camera system, see Col. 7, lines 40-45 and Col. 10, lines 34-36) of a mobile terminal device (1), said means comprising a part of housing of said mobile terminal device (body 2), and said means being adapted to cooperate with said lens module (24) of said camera system (3).

Referring to claim 56, the Umezawa reference discloses wherein said part of a housing (body 2) is detachably connected with said camera system (e.g., camera 3 is made detachable from the body 2 of the mobile terminal device 1, see Col. 11, lines 45-50).

Referring to claim 57, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 41 and 55.

Referring to claim 58, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 41 and 55-56.

Referring to claim 59, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 37 and 55.

Referring to claim 60, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 44 and 55.

Referring to claim 61, the Umezawa reference discloses in Figures 1-7 and 8A-8C, a method for changing optical properties of a lens module of a camera system of a mobile terminal device (e.g., the lens portion 24 of the camera 3 has autofocusing, angle-of-view, enlargement and telescoping functions as providing means for changing optical properties of

the camera system, see Col. 7, lines 40-45 and Col. 10, lines 34-36), comprising: changing optical properties of said lens module by actuating means for changing the optical properties of said lens module to cooperate with said lens module (e.g., user slides the lens portion 24 and lens 24 automatically focusing the user for visual telephone communication as actuation of objectives, See Col. 10, lines 8-16); and placing said means for changing optical properties in a part of housing of said mobile terminal device which is detachable from said mobile terminal device (e.g., camera 3 is made detachable from the body 2 of the mobile terminal device 1, see Col. 11, lines 45-50).

Referring to claim 62, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 41 and 61.

Referring to claim 63, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 42 and 61.

Referring to claim 64, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 43 and 61.

Referring to claim 65, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 44 and 61.

Referring to claim 66, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 37 and 56.

Referring to claim 67, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 37 and 57.

Referring to claim 68, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 37 and 58.

Referring to claim 69, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 37 and 59.

Referring to claim 70, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 37 and 60.

Referring to claim, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 38 and 61.

Referring to claim 76, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 39 and 56.

Referring to claim 77, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 39 and 57.

Referring to claim 78, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 39 and 58.

Referring to claim 79, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 39 and 59.

Referring to claim 80, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 39 and 60.

Referring to claim 86, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 41 and 56.

Referring to claim 87, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 41 and 57.

Referring to claim 88, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 41 and 58.

Referring to claim 89, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 41 and 59.

Referring to claim 90, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 41 and 60.

Referring to claim 91, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 42 and 56.

Referring to claim 92, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 42 and 57.

Referring to claim 93, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 42 and 58.

Referring to claim 94, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 42 and 59.

Referring to claim 95, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 42 and 60.

Referring to claim 96, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 43 and 56.

Referring to claim 97, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 43 and 57.

Referring to claim 98, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 43 and 58.

Referring to claim 99, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 43 and 59.

Referring to claim 100, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 43 and 60.

Referring to claim 101, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 44 and 56.

Referring to claim 102, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 44 and 57.

Referring to claim 103, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 44 and 58.

Referring to claim 104, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 44 and 59.

Referring to claim 105, the Umezawa reference discloses all subject matter as discussed with respected same comments to claims 44 and 60.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 38, 40, 46-48, 51, 71-75 and 81-85 are rejected under 35 U.S.C. 103(a) as being unpatentable over Umezawa et al. U.S. Patent 5,491,507 in view of Suda et al. U.S. Patent 6,373,524.

Referring to claim 38, the Umezawa reference discloses all subject matter as discussed with respected to claim 37, except that the Umezawa reference does not explicitly show the means changing optical properties is detachably connected with said camera system.

The Suda reference teaches in Figure 1, an interchangeable lens assembly (127) video camera system including zoom and focus lenses (102 and 105), motors (121 and 125) for driving the zoom and focus lenses and controlled by motor control circuit (118) as providing the means for changing optical properties; and the interchangeable lens assembly is detachably connected with the camera system (camera main body 128, see Col. 5, lines 49-60). The Suda reference is evidence that one of ordinary skill in the art at the time to see more advantages the digital video camera system having an interchangeable lens assembly (including means changing optical properties) detachably attached to the camera main body so that the camera system can easily work with different types interchangeable lenses (See Col.3, lines 9-21). For that reason, it would have been obvious to one of ordinary skill in the art to modify the camera system of Umezawa ('507) by providing means changing optical properties is detachably connected with the camera system as taught by Suda ('524).

Referring to claim 40, the Umezawa and Suda references disclose all subject matter as discussed with respected same comments to claim 37-39.

Referring to claim 46, the Umezawa and Suda references disclose all subject matter as discussed with respected same comments to claim 37-38 and 45.

Referring to claim 47, the Umezawa and Suda references disclose all subject matter as discussed with respected same comments to claim 37-38 and 45.

Referring to claim 48, the Umezawa and Suda references disclose all subject matter as discussed with respected same comments to claim 37-38 and 45-46.

Referring to claim 51, the Umezawa and Suda references disclose all subject matter as discussed with respected same comments to claim 39, 45 and 47.

Referring to claim 71, the Umezawa and Suda references disclose all subject matter as discussed with respected same comments to claim 38 and 56.

Referring to claim 72, the Umezawa and Suda references disclose all subject matter as discussed with respected same comments to claim 38 and 57.

Referring to claim 73, the Umezawa and Suda references disclose all subject matter as discussed with respected same comments to claim 38 and 58.

Referring to claim 74, the Umezawa and Suda references disclose all subject matter as discussed with respected same comments to claim 38 and 59.

Referring to claim 75, the Umezawa and Suda references disclose all subject matter as discussed with respected same comments to claim 38 and 60.

Referring to claim 81, the Umezawa and Suda references disclose all subject matter as discussed with respected same comments to claim 40 and 56.

Referring to claim 82, the Umezawa and Suda references disclose all subject matter as discussed with respected same comments to claim 40 and 57.

Referring to claim 83, the Umezawa and Suda references disclose all subject matter as discussed with respected same comments to claim 40 and 58.

Referring to claim 84, the Umezawa and Suda references disclose all subject matter as discussed with respected same comments to claim 40 and 59.

Referring to claim 85, the Umezawa and Suda references disclose all subject matter as discussed with respected same comments to claim 40 and 60.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.


8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- a. Masutani et al. U.S. 2002/0137542 discloses an external video camera is attached to a portable telephone.
 - b. Heurtaux U.S. 2002/0077069 discloses a mobile telephone provided with a camera is made.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lin Ye whose telephone number is (571) 272-7372. The examiner can normally be reached on Mon-Fri 8:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Ometz can be reached on (571) 272-7593. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306 (On July 15, 2005, the fax number will change to 571-273-8300).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



DAVID L. OMETZ
PRIMARY EXAMINER

Lin Ye
January 19, 2005